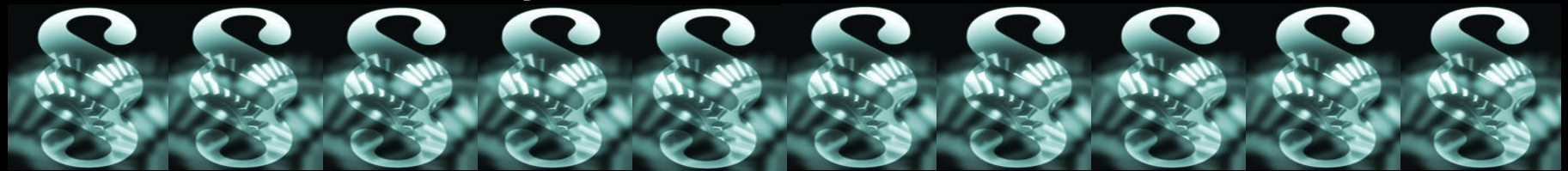
Environmental Management Systems Awareness Training

USAG Mannheim – prepared for Units

Environmental Management System (EMS)

- EMS is
  - **A framework for managing all of our environmental responsibilities so they become more integrated into overall operations;**
  - **A management process;**
  - **Used to provide value to the organization;**
  - **A tool to help the Community stay in compliance with legislated and voluntary environmental requirements, and to continuously improve its overall environmental performance;**
  - **A Garrison Commander's program but everyone's responsibility.**



Environmental Management System (EMS)

- Traditional Philosophy
  - **Meet environmental regulatory requirements to avoid negative consequences – do what's required.**
- New Philosophy
  - **Anticipate potential problem areas and proactively implement positive improvements.**

- Example
  - **Dismantling a gear may cause a spill!**
  - **Implement the preventive action as described in your SOP! Use a drip pan!**

Why do we need EMS in the Army??

- Executive Order 13423, signed by President Georg W. Bush, requires all U.S. government organizations to implement an EMS.

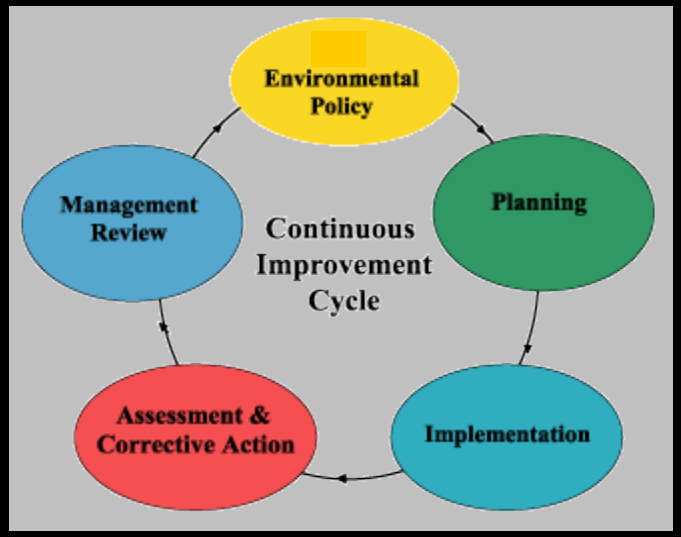
- EMS will
  - **Improve continuous compliance**
  - **Promote sustainable operations**
  - **Reduce long term costs.**

ISO 14001

- The International Organization for Standardization (ISO) has created ISO 14001 to specify global contents and requirements for an Environmental Management System.
- ISO 14001 is voluntarily followed by many private companies and organizations (e.g. Daimler Chrysler, City of Heidelberg, etc.)

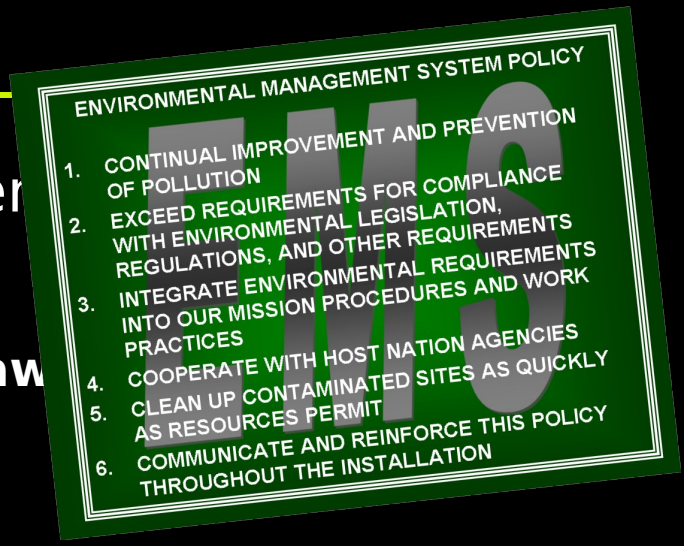
Major Components:

- **Environmental Policy**
- **Planning**
- **Implementation and Operation**
- **Checking and Corrective Action**



Environmental Policy

- Commander's environmental stater
- Garrison's commitment to
  - **Compliance with environmental law**
  - **Pollution Prevention;**
  - **Continual Improvement;**
  - **Cooperation with host nation agencies.**



- Everyone within the Mannheim Military Community needs to know and follow this policy!
  - **Remember your "Just-Do-It"-Card!**

Planning (1)

- Env. Aspect: Activity or part of an activity that interacts with the environment.
- Env. Impact: Change to the environment (positive or negative).

- Identification of Environmental Aspects and Impacts.
- Know how your work can impact the environment.
- EMS aims to minimize negative environmental impacts.

Planning (2)

ACTIVITY	ENV. ASPECT	ENV. IMPACT
OFFICE WORK	PAPER CONSUMPTION	DEPLETION OF FOREST RESOURCES
HEATING	ENERGY CONSUMPTION	DEPLETION OF RESOURCES
FUELING	SPILL	SOIL OR GROUNDWATER CONTAMINATION

Aspects and Impacts (1)

Significant Aspect – Heat/Electricity

Impact - Depletion of natural resources

- Turn off lights in the office/at home whenever possible.
- Don’t leave windows or outside doors open while heating or operating the AC. Don’t overheat rooms.
- Switch off monitor of the PC.
- Unplug equipment when not in use.
- Purchase energy-efficient equipment.

Aspects and Impacts (2)

Significant Aspect – Generation of Solid Waste

Impact – Disposal of Solid Waste

- Separate your household and workplace trash.
- Follow the recycling guide.
- Use paper bins and yellow bags.
- Help the USAG to save money (more than 1 Mill. $ a year can be saved by recycling).

Aspects and Impacts (3)

Aspect – Use of drinking water

Impact – Depletion of water resources

- Use water sparingly.
- Report water leaks to the Service Order Desk at DSN 381-8797/8798.
- Use car wash facilities to wash POVs. In Germany it is illegal to wash cars in your driveway.

Aspects and Impacts (4)

Aspect - Generation of waste water

Impact - Risk of soil and groundwater contamination

- Use drip pan for leaking vehicles.
- Wash vehicles only at designated wash racks.
- Do not let hazardous material enter the sewage system.

Aspects und Impacts (5)

Aspect – Use/Storage of hazardous material

Impact – Risk of spills and fire

- Use hazardous material economically. Do not store more than you need.
- Store hazardous material and waste in the right places.
- Keep information like Operation Instructions and MSDS complete and up to date.

The Garrison's Environmental Goals

- Overall objective: Reduce negative environmental impacts!
- Specific targets:
  - Continuously increase the recycling rate.
  - Reduce paper use by encouraging double-sided printing.
  - Reduce energy consumption by 2% each year.

EMS Implementation and Operation (1)

- **Communication**
  - **Do you know who to contact in case of spills or other emergencies?**
  - **Do you know where to obtain environmental information?**
  - **USAG Mannheim Environmental Website**

http://home.mannheim.army.mil/sites/directorates/DPW_web/Environmental.htm)

EMS Implementation and Operation (2)

- **Document/Record Control**
  - **Do you know which environmental records you need to keep?**
  - **How long do you need to store them?**
  - **Do you know where to find environmental requirements?**
  - **Document Control System available at EMD.**

- **Records:**
  - **Keep inspection reports, training documents, etc.**

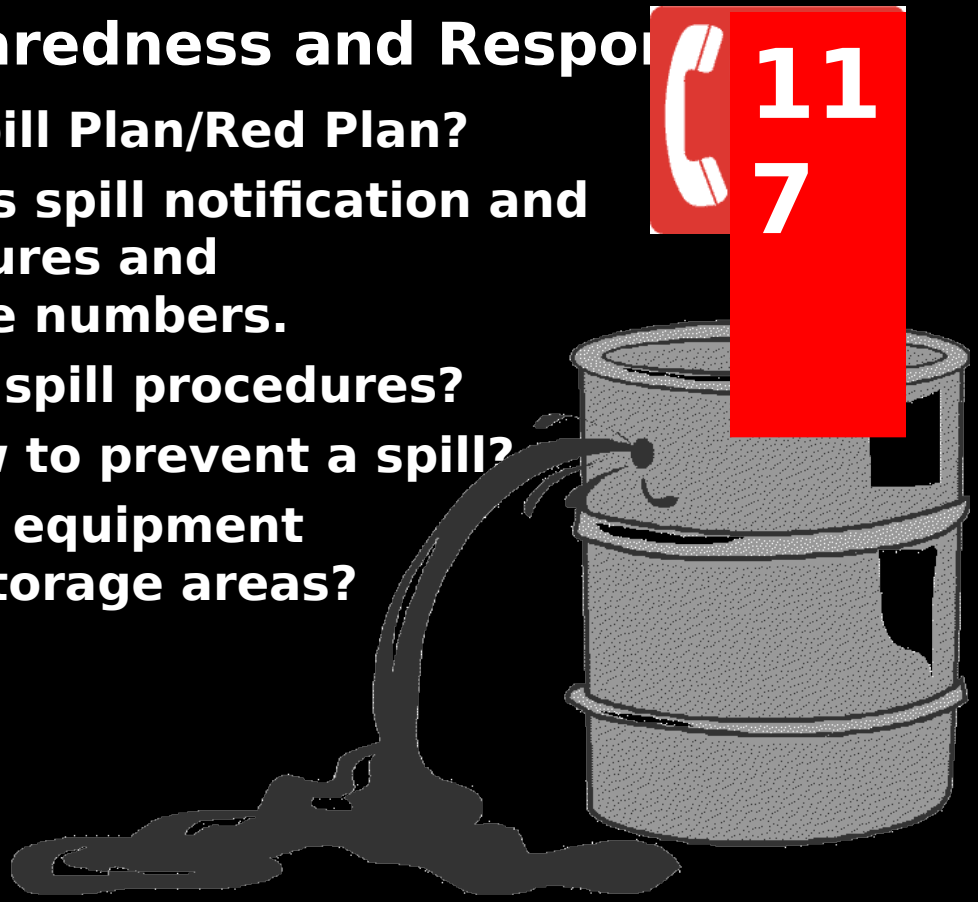
- **Documents:**
  - **Environmental SOP, Environmetal Policy, etc.**

EMS Implementation and Operation (3)

- **Operational Controls**
  - **Do you have an environmental SOP in your department?**
  - **Do you know where to find it?**
  - **Did you read and understand it?**
  - **Did you send it to EMD?**

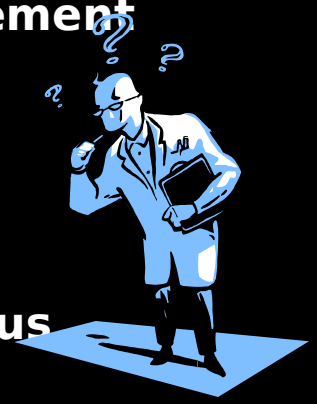
EMS Implementation and Operation (4)

- **Emergency Preparedness and Respon**
  - **Do you have a Spill Plan/Red Plan?**
  - **Red Plan contains spill notification and response procedures and emergency phone numbers.**
  - **Do you know the spill procedures?**
  - **Do you know how to prevent a spill?**
  - **Do you have spill equipment available at HS storage areas?**



EMS Implementation and Operation (5)

- **Define roles & responsibilities**
  - **Do you know your duties and responsibilities (EMS SOP)?**
  - **Do you know your Environmental Compliance Officer (ECO)?**
  - **Is your ECO appointed by the Unit Commander?**
  - **Do you know the role of the Environmental Management Division?**
- **Training**
  - **Did your ECO receive environmental training? Did he/she teach you how to perform work that can impact the environment? (e.g. handling of hazardous substances)**
  - **Do you keep records of your trainings and certifications? (3 years)**



Checking and Corrective Action (1)

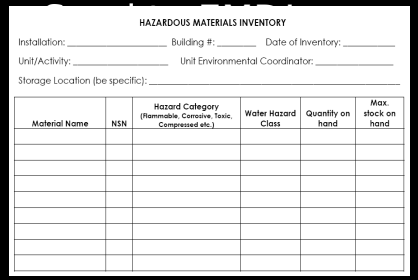
- **Monitoring/Measurement**
  - **Which environmentally critical activities need to be monitored?**
  - **Where do you need to conduct inspections and how frequently?**
  - **Make sure that monitoring is possible.**

Hazardous Materials Storage Area
- Weekly inspection!
- Keep log for 1 year!

Aboveground Storage Tanks
- Daily inspection!
- Keep log for 3 years!

Vehicle Storage Yards
- Daily inspections!
- Empty drip pans!

Hazardous Materials Inventory
- Annually!



HAZARDOUS MATERIALS INVENTORY

Installation: _____ Building #: _____ Date of Inventory: _____

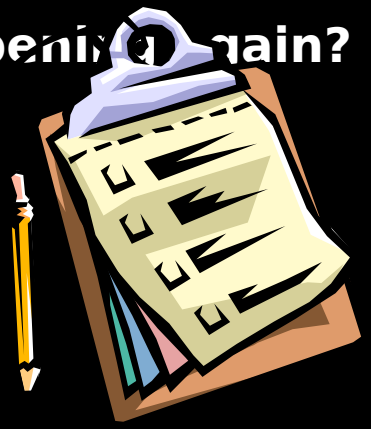
Unit/Activity: _____ Unit Environmental Coordinator: _____

Storage Location (be specific): _____

Material Name	NSN	Hazard Category (Flammable, Corrosive, Toxic, Compressed etc.)	Water Hazard Class	Quantity on hand	Max. stock on hand

Checking and Corrective Action (2)

- **EPAS (Environmental Performance Assessment System for checking legal compliance) and other external inspections/assessments**
  - **Are you prepared?**
  - **Do you know how to react to findings?**
  - **How do you correct deficiencies?**
  - **How do you prevent them from happening again?**
  - **Do you keep records?**



Consequences

- **What are the consequences of not following environmental laws and regulations?**
  - **Increase of pollution, risk of spills, waste generation**
  - **Degradation of soil and groundwater**
  - **Depletion of natural resources**
  - **Inspection Findings**
  - **Monetary fines**
  - **Notice of Violation (NOV)**

Roles & Responsibilities

- Know policy's key points.
- Know significant aspects that affect your activities.
- Contact EMD for questions of legal compliance.
- Understand objectives and support them.
- EMSMR – Deputy Commander USAG Mannheim.
- Attend EMS training (records are maintained at EMD).
- Communicate external requests to EMD, PAO.
- Know how to find documents, request changes, archive records.
- Know whom to call and which action to take in the event of an emergency.
- Record, submit monitoring/measurement data.
- Request and conduct corrective actions, determine root causes.
- Know and follow SOPs.
- Correct audit findings applicable to your work area.
- Provide data/information for management review when needed.

Environmental Contact Information

- **Chief Environmental**
  - **Mary K. Foley: 381-8675**
- **Emissions**
  - **Yitbarek Gebreyohannes: 381-7699**
- **Hazardous Material/Hazardous Waste**
  - **Sabine Fellhauer: 381-8447**
- **Tank Management**
  - **Franz Schork: 381-7035**
- **SORT, Recycling, Solid Waste**
  - **Wolfgang Ziegler: 381-7029**
- **Natural- & Cultural Resources, Asbestos**
  - **Bernd Weinerth: 381-7007**
- **Energy Manager**
  - **Kurt Marx: 381-8927**
- **Pollution Prevention**
  - **Ulrike Martin: 381-7405**
- **Environmental Management System (EMS)**
  - **Irene Bürkle: 381-7414**

QUESTIONS?